



## *Confirmation of Product Type Approval*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 12/MAY/2014. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 04/APR/2014 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name:** Valve, Flanged and Wafer Butterfly  
**Model Name(s):** VF-73\_ series

**Presented to:**

VALUE VALVES CO LTD.  
NO. 9 CHUNG SHAN ROAD  
TU CHENG INDUSTRIAL DISTRICT  
TAIPEI HSIEN  
Taiwan

<b>Intended Service:</b>	For marine & industrial applications those are compatible with the valve to meet the standard specified by the Manufacturer
<b>Description:</b>	Valve Sizes: 1.5 inch (40 mm) to 40 inch (1000 mm); other description refer to the Manufacturer's Specification
<b>Ratings:</b>	Maximum Working Pressure: 1.5" (40 mm)-12" (300 mm): 16 kg/cm <sup>2</sup> ; 14" (350 mm)-40" (1000 mm): 10 kg/cm <sup>2</sup> ; Maximum temperature can be limited by seat material. Consult factory
<b>Service Restrictions:</b>	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
<b>Comments:</b>	1) Valves of Gray Cast Iron are not to be used for the applications listed in 4-6-2/3.1.3; 2) Valves of Ductile Iron are not to be used for temperatures 350 Deg.C and above; 3) Ductile Iron may be used for Class II piping systems and for valves listed in 4-6-2/3.1.3 provided it has an elongation of not less than 12% in 50 mm; 4) The material for body, disc, stem and seat are to be suitable for the intended service; 5) Not suitable for fire-fighting service; 6) Materials rendered ineffective by heat are not to be used in shell valves; 7) Wafer type valves are not to be used in any connection to a vessel's shell. All valves are to be hydrostatically

**Notes / Documentation:** tested by the manufacturer and are to bear the trademark of the manufacturer legibly stamped or cast on the exterior of the valves as well as the pressure rating. This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. DRAWING NO. S730000FL01 REV 2; S730000FG01 REV 1; 730000FG02 REV 1 and S730000FG03 REV 1

**Term of Validity:** This Design Assessment Certificate number 04-TM27881/1-PDA, dated 05/Apr/2009 will expire on 04/Apr/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**ABS Rules:** 2009 ABS Steel Vessel Rules 1-1-4/7.7, 4-6-2/5.11

**National Standards:**

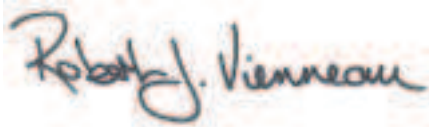
**International Standards:**

**Government Authority:**

**EUMED:**

**Others:** ISO 5211/1&2; AWWA C504 or ASME B16.34; ISO 5752

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	04-TM27881/1-PDA	05/APR/2009	04/APR/2014



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.



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And; a Product Design Assessment (PDA) valid until 04/APR/2014 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

**Product Name:** Valve, Wafer Lug Type Butterfly Valves  
**Model Name(s):** VF-92\_ series API Standard 607 fire tested valve

**Presented to:**

VALUE VALVES CO LTD.  
NO. 9 CHUNG SHAN ROAD  
TU CHENG INDUSTRIAL DISTRICT  
TAIPEI HSIEN  
Taiwan

<b>Intended Service:</b>	For marine & industrial applications those are compatible with the valve to meet the standard specified by the Manufacturer including fire-fighting services
<b>Description:</b>	Valve Sizes: 2 inch (50 mm) to 24 inch (600 mm); other description refer to the Manufacturer's Specification
<b>Ratings:</b>	Maximum Working Pressure: 10 kg/cm <sup>2</sup> ; Maximum temperature can be limited by seat, gland or seal material. Consult factory
<b>Service Restrictions:</b>	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
<b>Comments:</b>	1) The material for body, disc, stem and seat are to be suitable for the intended service; 2) Wafer type valves are not to be used in any connection to a vessel's shell. Valves connected to the shell of the vessel are to be hydrostatically tested, before installation, to a pressure of at least 5 bars, in the presence of the Surveyor. All valves are to be hydrostatically tested by the manufacturer and are to bear the trademark of the manufacturer legibly stamped or cast on the exterior of the valves as well as the pressure rating
<b>Notes / Documentation:</b>	This Product Design Assessment (PDA) is valid only for products intended for use

on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. DRAWING NO. S920000L01 REV 1 and S920000G03 REV 1

**Term of Validity:**

This Design Assessment Certificate number 04-TM427888/A-PDA, dated 05/Apr/2009 will expire on 04/Apr/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**ABS Rules:**

2009 ABS Steel Vessel Rules 1-1-4/7.7, 4-6-2/5.11

**National Standards:**

ISO 5211/1&2; ASME B16.34; ISO 5752; API Std 607 fifth edition

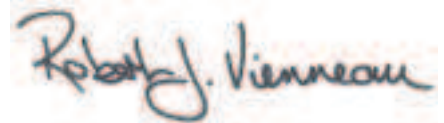
**International Standards:**

**Government Authority:**

**EUMED:**

**Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	04-TM427888/A-PDA	05/APR/2009	04/APR/2014



ABS Programs

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